

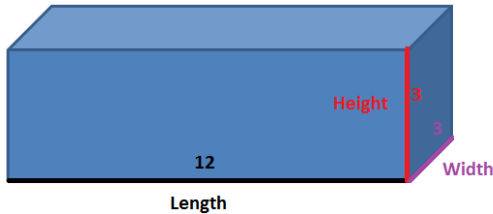
Name _____

Date _____

Solving for Volume: Addition or Multiplication

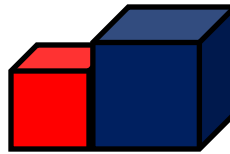
In this worksheet, we will practice solving for volume using addition and multiplication strategies.

For example, multiply the length (l) x the width (w) x the height (h) to find the volume of the prism below.



The volume of the prism is 108 units^3 .

For example, add the volume of the red cube and blue cube together to get the volume of the combined figure.



The red cube has a volume of 8 cubic inches.

The blue cube has a volume of 27 cubic inches.

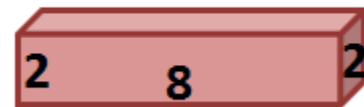
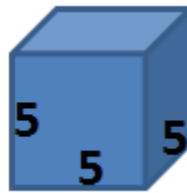
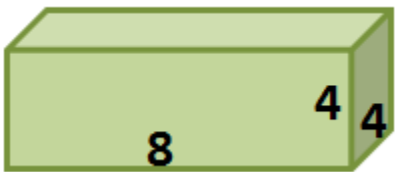
The combined volume of the red and blue cubes is 35 cubic inches.

Exercise Questions:

1. What do you need to multiply together to find volume? _____

2. How do you find the total volume of multiple figures? _____

Use the shapes below to solve questions 3 - 6



3. What is the volume of the green rectangular prism? _____

4. What is the volume of the red rectangular prism? _____

5. What is the volume of the cube? _____

6. What is the volume of all three shapes put together? _____

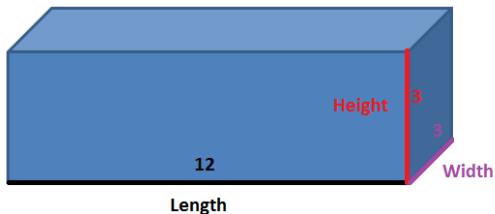


Answer Key

Solving for Volume: Addition or Multiplication

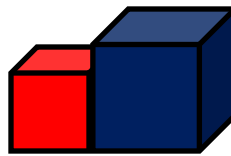
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The red cube has a volume of 8 cubic inches.

The blue cube has a volume of 27 cubic inches.

The combined volume of the red and blue cubes is 35 cubic inches.

Exercise Questions:

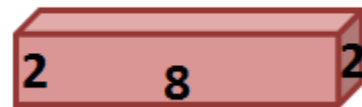
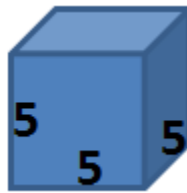
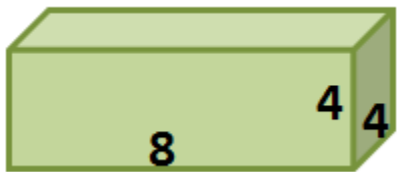
1. What do you need to multiply together to find volume?

length X width x height

2. How do you find the total volume of multiple figures?

find the volume of each figure, then add them together

Use the shapes below to solve questions 3 - 6



3. What is the volume of the green rectangular prism? 128 units^3

4. What is the volume of the red rectangular prism? 32 units^3

5. What is the volume of the cube? 125 units^3

6. What is the volume of all three shapes put together? 285 units^3

